

# ancy-210-lab6

August 26, 2023

LAB 6

2347210

DOMAIN: Netflix Movie Recommendation System

- 1 Write a program using the Regular Exception and create a function that accepts a string and searches it for a valid phone number.

Return the phone number if found.

```
[1]: import re
```

```
[19]: def numbersearch(text):  
    #in the pattern, \b indicates boundary between a word character(letter/  
    ↪ char) and a non-word character(digits/special symbols). used to ensure that  
    ↪ it is not part of a bigger string.  
    #\d (short-hand character) matches any digits (0-9). \d{3} matches 3  
    ↪ digits, - matches the hyphens in between and this \d{3} format is continued  
    ↪ for the pattern.  
    pattern1 = r"\b\d{3}-\d{3}-\d{4}\b"  
    phone_numbers = re.findall(pattern1, text)  
    return phone_numbers
```

```
[20]: textin=input("Enter the string: ")  
phone=numbersearch(textin)  
print(phone)
```

```
Enter the string: Hi Jenny 879-485-9878  
['879-485-9878']
```

- 2 . Write a function that employs regular expressions to ensure the password given to the function is strong.

A strong password is defined as follows:

- at least eight characters long

- contains one uppercase character
- contains one lowercase character
- has at least one digit
- has at least one special character

[For instance: Christ@123]

```
[21]: def passwordstrength(password):
        pattern = r"^(?=.*\d)(?=.*[a-z])(?=.*[A-Z]).{8,}$"
        match = re.match(pattern, password)
        return bool(match)
```

```
[26]: password=input("Enter your password: ")
        if(passwordstrength(password)==True):
            print("Your password is strong!")
        else:
            print("Weak password! Please change.")
```

Enter your password: Christ@123  
Your password is strong!